

Modernizing the Warrior through Army Transformation:

Future Force Warrior (FFW) is the Army's flagship Science and Technology initiative to develop and demonstrate revolutionary capabilities for the Future Force Soldier and Small Team. A human-centric, integrated system of systems approach is being employed to support the Army transformation into a soldier centric force. The FFW is a major pillar of the Future Force Strategy, complementing the Future Combat System (FCS) and other Future Force programs.

FFW seeks to create a lightweight overwhelmingly lethal, fully integrated combat system including head to toe individual protection, ad-hoc networking, soldier worn power sources, and enhanced human performance. The program is aimed at providing unsurpassed individual and small team lethality, survivability, communications and responsiveness — a formidable warrior in an invincible team. FFW will be fully integrated with FCS and other Future Force platforms.

LETHALITY:

Vision: FFW interfaces with advanced, lightweight weapons and fire control optimized for urban combat, synchronized direct fire and indirect fire within and across FFW team, and leveraging FCS NLOS/BLOS fires.

SURVIVABILITY:

Vision: Lightweight, low bulk, multi-functional, full spectrum protective combat ensemble. Ballistic protection, novel signature management, semi-permeable membrane for CB/wet protection, electrotexile power/data body LAN. On-board physiological/medical sensor suite with enhanced casualty care. Customized voice, tactile, visual and auditory human interface, with integrated laser eye protection.

NETWORKING COMMUNICATIONS/COLLABORATIVE SITUATIONAL AWARENESS (NC/CSA):

Vision: Netted FFW small unit/teams with robust team communications, state-of-the-art distributed and fused (thermal and image intensification) sensors, organic tactical intelligence/collection assets, enhanced situational understanding, embedded training, on-the-move planning, and linkage to other Future Force assets.

MOBILITY, SUSTAINABILITY, AND HUMAN PERFORMANCE:

Vision: Unconstrained vertical and lateral movement at full up combat/assault capability during mission execution. Objective individual soldier load weight of 40 pounds by introduction of lighter weight, multifunctional materials throughout all facets of the combat ensemble, a holistic systems approach, and offloading onto FCS robotic MULEs. Optimized cognitive and physical fightability.

POWER:

Vision: 24 hours autonomous individual operation, high density, low weight/volume, reliable, safe power source/system. 72 hours continuous team operations relying on the FCS MULE for recharging/fuel replacement.

"The FUTURE FORCE WARRIOR will be a formidable warrior in an invincible team. EXPLOITING THE POWER OF THE FORCE. by seeing first, understanding and acting first, finishing decisively, and surviving and enduring."



A Partnership Effort Premised on Technology Development & Integration



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FUTURE FORCE WARRIOR

**Soldiers On Point
For The Nation**

ARMY TRANSFORMATION: A Soldier Centric Viewpoint

**FFW System of Systems
Concept within the
Unit of Action**



FCS
Class I
UAV

Human
Performance
& Embedded
Training

Integrated
Protective
Headgear

Collaborative
Networked
Situational
Awareness

Netted Comms/
Collaborative
Situational
Awareness
(NC/CSA)

**Unmanned Systems are
an Integral Part of the
FFW System of Systems
Concept**

Ad Hoc
Networking

Display & Sensory
Enhancement

Highly Lethal
w/ Netted Call
for Fires

24/72 Hr
Autonomous
Operation

Advanced
Power Sources

Full
Spectrum
Integrated
Protection



```

PQIN = &PSDDSC->RING.GETIN;
FLIN = &PSDDSC->RING.LASTIN;
PPIN = &PSDDSC->RING.PVTIN;
IF ((FLIN == *PPIN) && (PSDDSC->RING.QUBTA = 0))
    
```